

Title (en)
ELASTOMER-METAL CORD COMPOSITE BODY, AND TIRE USING SAME

Title (de)
ELASTOMER-METALLKORD-VERBUNDSTOFFKÖRPER UND REIFEN DAMIT

Title (fr)
CORPS COMPOSITE ÉLASTOMÈRE-CÂBLÉ MÉTALLIQUE ET PNEU L'EMPLOYANT

Publication
EP 3868575 B1 20240724 (EN)

Application
EP 19873081 A 20191016

Priority
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Abstract (en)
[origin: EP3868575A1] Provided are: an elastomer-metal cord composite which can improve various performance of a tire, such as steering stability, corrosion propagation resistance, and belt layer separation resistance; and a tire including the same. In an elastomer-metal cord composite (10), a metal cord (2) composed of a bundle of plural metal filaments (1) that are arranged in a single row without being twisted together is coated with an elastomer (3). A gap is provided between adjacent metal filaments, and when the diameter of the metal filaments is defined as D (mm), a gap amount, which is a distance between the surfaces of the adjacent metal filaments that is measured in a direction orthogonal to an extending direction of the metal cord, is defined as G (mm), and the number of metal filaments constituting the metal cord is defined as N (filaments), the elastomer-metal cord composite (10) satisfies a relationship expressed by the following Formula (1): $0.45 \leq [(D/2)^2 \times \pi \times N] / [D \times N + G \times (N - 1)] \leq 0.77$ (1) wherein, D and G > 0, and N is an integer.

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